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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,214	11/13/2003	Susan E. Bach	970520A	8470
	590 03/27/200 IONG FLAHERTY &	•	EXAM	INER
250 PARK AVE		PHU, PHUONG M		
SUITE 825 NEW YORK, N	Y 10177-0899		ART UNIT PAPER NUMBER	
·			2611	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE .	
3 MON	THS	03/27/2007	PAP	FR

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	,			
		10/712,214	BACH, SUSAN E.				
	Office Action Summary	Examiner	Art Unit				
		Phuong Phu	2611	_			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence addre	28 <b>5</b>			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Or period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).				
Status	·						
1)  🔀	Responsive to communication(s) filed on <u>07 Ja</u>	nnuary 2004.					
		action is non-final.					
3)	ce this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	ion of Claims						
· 4)⊠	Claim(s) <u>1-3,12 and 14-16</u> is/are pending in the	e application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-3 and 12 is/are rejected.						
7)🛛	Claim(s) 14-16 is/are objected to.		•				
8)[	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)[	The specification is objected to by the Examine	r.	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the		•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-	152.			
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicati	on No				
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Sta	ige			
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
-		·					
Attachmen	Hel						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5)  Notice of Informal P 6) Other:	atent Application				

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1, lines 5-7 recites the limitation "a tap weight update calculation unit coupled to the equalizer and adapted to determine *constant* and predetermined tap weight updates for use in adjusting the tap weights during operation of the equalizer". This limitation is not disclosed in the disclosure of the instant application. As illustrations shown in figures 2 and 3, the "tap weight update calculation unit" is adapted to determine adaptive "tap weight updates", namely, the "tap weight updates" being non-constant "tap weight updates". The limitation is suggested to be changed to --a tap weight update calculation unit coupled to the equalizer and adapted to determine adaptive tap weight updates for use in adjusting the tap weights during operation of the equalizer--.

Claims, depended on claim 1, therefore, also rejected.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1-3 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5 recites the limitation "a tap weight update calculation unit coupled to the equalizer". It is unclear whether the input of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer" or whether the output of the "tap weight update calculation unit" is coupled to the input or output of the "equalizer". The limitation is suggested to be changed to --a tap weight update calculation unit *having an input coupled to the output of* the equalizer--.

Similarly, claim 3, lines 1-3 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input* coupled to the output of the equalizer--.

Similarly, claim 12, line 5 recites the limitation "a demodulator *coupled* to the equalizer". The limitation is suggested to be changed to --a demodulator *having an input coupled to the output of* the equalizer--.

Claims, depended on claim 1, are therefore also rejected.

### Allowable Subject Matter

- 5. Claims 14-16 are allowed.
- 6. Claim 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

#### Conclusion

7. References 4575857, 4695969, 5130799, 5648987, 4811360 and 4803438 are cited because they are pertinent to the claimed method and associated apparatus.9

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

PHUONG PHU PRIMARY EXAMINE

Phuong Phu 03/20/07